LISTA 4 - PROBABILIDADE 4

PRESCOMER BOLA BRANCA) = _ 2

(ESLOUMER SOLA VERNELHA) = 4 VENAL VERNELHA) = X14

BOLA BRANCA ESCOLMEN BOLA BRANCA

Prescourier BOLA BRANCA ESCOLATEU BOLA USTOTEURA)

ESCOLLER BOLA BRANCA) = X [314)10] 3+(v+1)] = 1 [x3+x] + 1 [xy [3+1+v]

a)
$$P(x=2) = 1 \cdot 1 = 1$$

2 3 6

$$b) \mathbb{P}(x=3) = \underbrace{1}_{2} \underbrace{2}_{3} \underbrace{1}_{2} + \underbrace{1}_{2} \underbrace{2}_{3} \underbrace{1}_{2} = 2(\underbrace{1}_{2} \underbrace{2}_{3} \underbrace{1}_{2})$$

$$= \underbrace{1}_{2} = \underbrace{1}_{3}$$

$$C)P(x=4) = \frac{1}{2} \cdot \frac{1}{3} \cdot 1 \cdot 1 + \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2} \cdot 1 + \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2} \cdot 1$$

$$= \frac{1}{6} + 2\left(\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2}\right) = \frac{1}{6} + \frac{1}{42} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$= \frac{1}{6} + 2\left(\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{2}\right) = \frac{1}{6} + \frac{1}{42} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$P(B|A) = 6.5 = 6.5 = 10 = 5$$

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1	1,1	42	1,3	2,4	15	46
2	2,1	2,2	2.3	2,4	2,5	2,6
3	3 L	3.2	3,3	34	35	3,6
4	17.1	4,2	4,3	4,4	4.5	4.6
5	5, L	5,2	5,3	5,4	5,5	5,6
6	16,1	6.2	6.3	6,5	6,5	6,6

FACES FACES

LOADO 2 DADO

G X G = 36 PARES ORDENADOS

(L, L); (2,2); (3,3); (4,4); (5,5); (6,6) -> 6 PARES ORDED ADOS DE FACES IGUAS

36-61=30 PADES DIFFERENTES - DIVINERO DE PESULTADOS POSSÍVEIS (NRP)

(1,4); (4,1)(2,4); (4,2); (3,4), (4,3); (4,5), (5,4); (4,6); (64) ->10 PARES ORDENADOS CON 1 FACE 4-> NÓMECO DE CABOS FONORÁVEIS (NCF)

P(PROBABILIDADE DO EVENTO) = NCF = 10 = 1 NRP 30 3 88888888

(5) $P(ESCOLHER 2 BOLAS) = A_{5,2} = 51 = 5.4 81 = 5.4$ SEM REPOSIÇÃO) = (5-2)1 = 31

 $P(ESCOLHER 2 BOLAS BRANCAS) = A_{3,2} = 31 = 3.2.1$ SER POPOSIÇÃO (3-2) (1)= 3.2 = 6

RESCOLMER 2 BOLAS PRETAS = A 2,2 = 21 = 2 1 = 2 SET REPOSIÇÃO (2-2)

 $\frac{P(ESCOLHER 2 BOLAS 16UMS) = A_{8,0} + A_{0,2}}{SED REPOSIÇÃO} = \frac{A_{8,0} + A_{0,2}}{A_{5,2}} + \frac{A_{5,2}}{A_{5,2}} = \frac{6 + 2 = 8 = 2}{20 20 5}$

(G) IP(A) = 0,4 IP(AUB) = 0,7 IP(B) = 2

a) P(AUB) = P(A) + P(B) - P(AOB) 0,7 = 0,4 + x - 0 -> x = 0,7 - 0,4 -> x = 93

5) SIN, POIS NÃO MÁ INTERCEÇÃO ENTRE A

P(A) = 0,4 P(A) = 0,4 P(A) = 0.4 P(B) = 2

(8) a)
$$P(ESCOLHER 2 PEGAS) = A_{20,2} = \frac{20!}{(20-2)!} = \frac{20.19!}{18!}$$
 = 3.80

$$P(ESCOLHER 2) = \Delta_{10,2} = 421 = 42.11.101$$

 $P(ESCOLHER 2) = \Delta_{10,2} = 421 = 42.11.101$
 $= 132$

b) P(ESCOLHER 2) =
$$48,2 = 81 = 8.7.61 = 56$$

(PELAS PERFEITAS) = $6!$

$$P(AS 2 PRINTERAS PEGAS) = A_{8,2} = 56 = 14$$

SEREM PERFEMAS $A_{20,2} = 380 = 95$